

Abstract

An exhaust-gas purification system and method are provided for an internal combustion engine having an NO_x storage catalytic converter and a downstream SCR catalytic converter. The NO_x storage catalytic converter can be supplied in a first operating mode with an oxidizing exhaust gas and in a second operating mode with a reducing exhaust gas. A third operating mode is provided between the first operating mode and the second operating mode, in which an exhaust gas which has a lower content of oxidizing constituents than the first operating mode and a lower content of reducing constituents than the second operating mode can be supplied to the NO_x storage catalytic converter to improve NH₃ production at the start of converter regeneration.